

What is Claimed is:

- Pub 03
1. A method for authorizing purchases by an owner of an account previously established with a bank, the owner wanting to purchase an item from a merchant, the method comprising the step(s) of:
 - providing a plurality of authorization parameters potentially available for use in calculating an authorization code associated with a transaction to purchase the item;
 - defining a selected subset of the plurality of authorization parameters; establishing respective authorization parameter data for each of the selected authorization parameters;
 - calculating the authorization code corresponding to the established respective authorization parameter data;
 - providing the authorization code to the owner;
 - receiving the authorization code and transaction data from the merchant at the bank;
 - calculating a confirmation authorization code from the transaction data corresponding to the established respective authorization parameter data; and
 - comparing the authorization code with the confirmation authorization code to determine whether or not to approve the transaction.
 2. The method of claim 1, further comprising the step(s) of:
 - allowing the owner to define the selected subset of the plurality of authorization parameters and establish the respective authorization parameter data for each of the selected authorization parameters.
 3. The method of claim 2, further comprising the step(s) of:
 - comparing the authorization code with the confirmation authorization code at the bank; and

if the authorization code and the confirmation authorization code do not match, then transmitting a rejection notice from the bank to the merchant.

4. The method of claim 3, further comprising the step(s) of:
storing a plurality of transaction authentication records at the bank where each transaction record is representative of a respective transaction and has associated therewith a respective authorization code; and
using the authorization code received at the bank from the merchant to locate a corresponding one of the plurality of transaction authentication records for use in determining whether or not to approve the transaction.
5. The method of claim 4, further comprising the step(s) of:
including with the plurality of authorization parameters a transaction sequence parameter.
6. The method of claim 3, further comprising the step(s) of:
providing an owner selections indicator representative of the selected subset of the plurality of authorization parameters and the respective authorization parameter data with the authentication code;
receiving the owner selections indicator from the merchant at the bank;
and
using the owner selections indicator to identify the transaction data corresponding to the selected parameter data.
7. The method of claim 1, further comprising the step(s) of:
providing an owner selections indicator representative of the selected subset of the plurality of authorization parameters and the respective authorization parameter data with the authentication code;

receiving the owner selections indicator from the merchant at the bank;
and
using the owner selections indicator to identify the transaction data
corresponding to the selected parameter data.

8. A method of operating a transaction processing data center for authorizing purchases by an owner of an account previously established with a data center, the owner wanting to purchase an item from a merchant, the method comprising the step(s) of:

providing a plurality of authorization parameters potentially available for use in calculating an authorization code associated with a transaction to purchase the item;
receiving an input from the owner of a selected subset of the plurality of authorization parameters;
receiving from the owner respective authorization parameter data for each of the selected authorization parameters;
calculating the authorization code corresponding to the received respective authorization parameter data;
providing the authorization code to the owner;
receiving the authorization code and transaction data from the merchant;
calculating a confirmation authorization code from the transaction data corresponding to the received respective authorization parameter data;
and
comparing the authorization code with the confirmation authorization code to determine whether or not to approve the transaction.

9. The method of claim 8, further comprising the step(s) of:
establishing a real time connection with the owner for receiving the selected subset of the plurality of authorization parameters and the

respective authorization parameter data for each of the selected authorization parameters.

10. The method of claim 9, further comprising the step(s) of:
if the authorization code and the confirmation authorization code do not match, then transmitting a rejection notice to the merchant.
11. The method of claim 10, further comprising the step(s) of:
storing a plurality of transaction authentication records where each transaction record is representative of a respective transaction and has associated therewith a respective authorization code; and
using the authorization code received from the merchant to locate a corresponding one of the plurality of transaction authentication records for use in determining whether or not to approve the transaction.
12. The method of claim 11, further comprising the step(s) of:
including with the plurality of authorization parameters a transaction sequence parameter.
13. The method of claim 10, further comprising the step(s) of:
providing an owner selections indicator representative of the selected subset of the plurality of authorization parameters and the respective authorization parameter data with the authentication code;
receiving the owner selections indicator from the merchant; and
using the owner selections indicator to identify the transaction data corresponding to the selected parameter data.

14. The method of claim 10, further comprising the step(s) of:
 providing an owner selections indicator representative of the selected
 subset of the plurality of authorization parameters and the respective
 authorization parameter data with the authentication code;
 receiving the owner selections indicator from the merchant; and
 using the owner selections indicator to identify the transaction data
 corresponding to the selected parameter data.
15. The method of claim 8, further comprising the step(s) of:
 providing an owner selections indicator representative of the selected
 subset of the plurality of authorization parameters and the respective
 authorization parameter data with the authentication code;
 receiving the owner selections indicator from the merchant; and
 using the owner selections indicator to identify the transaction data
 corresponding to the selected parameter data.
16. A database for processing a transaction, the database comprising:
 a plurality of owner account information files;
 a plurality of authorization parameters potentially available for use in
 calculating an authorization code associated with a transaction to
 purchase an item; and
 a plurality of transaction authentication records corresponding to the
 plurality of owner account information files, respectively; and
 where each transaction record is representative of a respective
 transaction and has associated therewith a selected subset of the
 plurality of authorization parameters, respectively and an authorization
 code corresponding to the selected respective authorization parameter
 data, respectively.

17. The database of claim 16, wherein:
the plurality of authorization parameters includes a transaction sequence parameter.
18. A system for authorizing purchases by an owner of an account previously established with a bank, the owner wanting to purchase an item from a merchant, the system comprising:
means for providing a plurality of authorization parameters potentially available for use in calculating an authorization code associated with a transaction to purchase the item;
means for defining a selected subset of the plurality of authorization parameters;
means for establishing respective authorization parameter data for each of the selected authorization parameters;
means for calculating the authorization code corresponding to the established respective authorization parameter data;
means for providing the authorization code to the owner;
means for receiving the authorization code and transaction data from the merchant at the bank;
means for calculating a confirmation authorization code from the transaction data corresponding to the established respective authorization parameter data; and
means for comparing the authorization code with the confirmation authorization code to determine whether or not to approve the transaction.
19. The system of claim 18, further comprising:
means for allowing the owner to define the selected subset of the plurality of authorization parameters and establish the respective authorization parameter data for each of the selected authorization parameters.

20. The system of claim 19, wherein:
the means for comparing the authorization code with the confirmation
authorization code is located at the bank; and
further comprising:
if the authorization code and the confirmation authorization code do not
match, means for transmitting a rejection notice from the bank to the
merchant.
21. The system of claim 20, further comprising:
means for storing a plurality of transaction authentication records at the
bank where each transaction record is representative of a respective
transaction and has associated therewith a respective authorization
code; and
means for using the authorization code received at the bank from the
merchant to locate a corresponding one of the plurality of transaction
authentication records for use in determining whether or not to
approve the transaction.
22. The system of claim 21, further comprising:
means for including with the plurality of authorization parameters a
transaction sequence parameter.
23. The system of claim 20, further comprising:
means for providing an owner selections indicator representative of the
selected subset of the plurality of authorization parameters and the
respective authorization parameter data with the authentication code;
means for receiving the owner selections indicator from the merchant at
the bank; and

means for using the owner selections indicator to identify the transaction data corresponding to the selected parameter data.

24. The system of claim 18, further comprising:
- means for providing an owner selections indicator representative of the selected subset of the plurality of authorization parameters and the respective authorization parameter data with the authentication code;
 - means for receiving the owner selections indicator from the merchant at the bank; and
 - means for using the owner selections indicator to identify the transaction data corresponding to the selected parameter data.